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Johns Hopkins University

Action of Aromatic Sulphonchlorides on Urea.

Dissertation
submitted to the Board of University
Studies of The Johns Hopkins University for the degree of Doctor of
Philosophy

by
Wightman Wells Garner

1900.

93.513

[illegible]

[illegible] [illegible]
[illegible] 5
[illegible] 16
I. [illegible]
[illegible] 17
[illegible] 21
3. [illegible] 24
4. [illegible] 28
[illegible] 31
[illegible]
[illegible]
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[illegible] 41
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[illegible]

[illegible] [illegible]

[illegible] [illegible]

[illegible] 49

[illegible] 51

[illegible]

[illegible] 52

[illegible] 55

[illegible]

[illegible]

[illegible]

made probabl

[illegible]

[illegible] definite [illegible]

[illegible] the scale

[illegible]

[illegible]

[illegible]

I., II [illegible] III [illegible]

[illegible] III II. I, [illegible] IV [illegible]

[illegible]

I. [illegible]

[illegible]

II. [illegible]

[illegible]

III. [illegible]

[illegible]

IV [illegible]

[illegible]

V [illegible]

VI [illegible]

[illegible]

[illegible]	I.	II	III	II
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible]	I.	II.	III
S [illegible]	[illegible]	[illegible]	[illegible]

[illegible]

[illegible] would [illegible]

[illegible]

I. [illegible]

5 [illegible]

[illegible]

[illegible]

[illegible] I. II

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

I. [illegible]

II. [illegible]

[illegible]

[illegible] I II III.

[illegible]

[illegible]

[illegible] urea.

[illegible]

[illegible] urea descri[illegible] [illegible]

[illegible]

II. [illegible]

[illegible]

[illegible]

[illegible] of about 55° C. [illegible] the mixture [illegible]

[illegible]

[illegible]

and [illegible]

[illegible]

[illegible] and [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] is allowed to [illegible]

[illegible]

[illegible]

I. [illegible] 3 [illegible]

[illegible]

[illegible]

and [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

VII. [illegible]

Calculated for [illegible]	Found			
	I.	I.	II.	II
N 15.15	15.14	15.16	15.05	[illegible]

[illegible] Found.

[illegible]

[illegible]

[illegible] by gently heating until [illegible]

[illegible]

[illegible]

I. [illegible]
II. [illegible] .10. [illegible]
III. [illegible]
IV. [illegible]

[illegible] H_2 [illegible]

[illegible] H_2 [illegible]

[illegible]

[illegible]

[illegible]

		Found		
[illegible]		I.	II.	III.
C	[illegible]	[illegible]	[illegible]	[illegible]
H	[illegible]	5.33	[illegible]	[illegible]

Calculated [illegible]

[illegible]

[illegible]

[illegible] the

[illegible]

[illegible]

$[illegible] \left< \begin{matrix} [illegible] \\ SO_2 [illegible] \end{matrix} \right. [illegible]$

[illegible]

[illegible] results of the [illegible]

I. [illegible]

II. [illegible]

III. [illegible]

IV. [illegible]

[illegible]		I	II	III	IV
[illegible]		[illegible]	[illegible]	[illegible]	
S	11.08	----	------	[illegible]	[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

I. [illegible]

[illegible]

I. [illegible]

[illegible]

II. [illegible] S [illegible]

III. [illegible]

[illegible] Found

[illegible]		I.	II.	III.	IV.
N	15.[illegible]6	15.18	[illegible].45		
S	13.[illegible]	-----	------	13.53	[illegible]

[illegible]

[illegible]

[illegible]

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[illegible]

[illegible]

I. [illegible]

[illegible]

II. [illegible]

[illegible]

III. [illegible]

IV. [illegible]

[illegible]

[illegible] I. [illegible]

1 [illegible] 17.74

5 [illegible]

[illegible]

[illegible]

[illegible]

[illegible] ville, S. C., Aug. 5, 1875; [illegible]

[illegible] 1892, and [illegible]

[illegible] 1894 [illegible]